



Concealed Ceiling Units

FDMRN Series



مؤسسة الإمارات للمواصفات والمقاييس
Emirates Authority For Standardization & Metrology

High Ambient

R-410A

Daikin Concealed Ceiling Units

An invisible improvement to any space

DAIKIN. Everything you ever wanted in air conditioning.

Daikin operates under the belief that customers are buying quality. With this in mind, Daikin strives to stay ahead of consumer needs by providing high-quality products with superior performances, energy efficiency, and comfort in stylish solutions conforming to all interior spaces and lifestyles.



Main Features

R-410A Refrigerant

Unlike R-22, R-410 has no ozone depletion potential.

Powerful and Efficient Cooling

Daikin units are conceived to offer a powerful cooling to quickly cool down the room, even if the outside temperature is very high. The system is designed to be extremely efficient, with EER reaching up to 12.2 Btu/hr/W, for a lower electricity consumption.

The excellent cooling performances are the results of the combination of the high efficiency tropical compressor combined with the optimal heat transfer from the heat exchanger.

Optimal Cooling Comfort

The cooling comfort experience can be maximized by using one of the functionalities like:

- › Turbo Mode that cools down the space even quicker
- › Sleep Mode that ensures a comfortable environment for restful sleep, by avoiding overcooling at night
- › Dry Mode that will reduce the humidity level of the room to guarantee an optimal comfort.

Whisper Quiet Operation

The Daikin indoor units are whisper quiet. The sound level can further be reduced, down to 34 dB(A).

Standard Anti-Corrosion Protection

The condenser coil is protected against corrosion thanks to either the hydrophilic gold fin coating on the copper to aluminum heat exchanger⁽¹⁾ or the epoxy coating on the micro-channel coil⁽²⁾. This will ensure a longer life span, even under corrosive environment, with cooling performance maintained optimal.

Easy Installation

Daikin outdoor units allow flexible installation. They can easily be mounted on a roof, thanks to the long piping runs, or simply placed against an outside wall.

(1) Feature available on RR20-36AV1KU(RE) and RR50AY1KU. (3) Feature available on FDMRN60AY1KU.
 (2) Feature available on RR60AY1KU. (4) Feature available on FDMRN20-50AV1KU.



FDMRN20-50AV1KU

FDMRN60AV1KU



RR20 - 36AV1KU
RR20 - 30AV1KRE

RR60AY1KU

BRC51D66
Wired Remote Control

High Design Flexibility

›Wide range of available static pressures in compact design casing allows high flexibility in design such as long ducting or multizoning applications: ESP up to 100 Pa.

›The ESP is adjustable through simple field setting on the indoor electrical board⁽³⁾.

›Unique convertible air discharge direction: the outdoor air discharge direction of RR60AY1K can be changed, from top to side discharge, at site according to field requirements.

Double Protection Drainage System

Daikin ducted unit has a reinforced protection against water leakage thanks to the double drain pan⁽⁴⁾

Auto Random Restart

In case of sudden power failure during operation, this feature ensures that air conditioners installed in the same building will resume operation automatically but randomly instead of turning on at the same time. This will prevent power surge after blackout. The operation will be based on the previous setting.

Technical Specifications

		Indoor Model	FDMRN20AV1KU	FDMRN25AV1KU	FDMRN30AV1KU	FDMRN20AV1KU	FDMRN25AV1KU	FDMRN30AV1KU	FDMRN36AV1KU	FDMRN50AV1KU	FDMRN60AV1KU
		Outdoor Model	RR20AV1KRE	RR25AV1KRE	RR30AV1KRE	RR20AV1KU	RR25AV1KU	RR30AV1KU	RR36AV1KU	RR50AY1KU	RR60AY1KU
Power Supply		V/Ph/Hz	230V/1ph/50Hz			230V/1ph/50Hz			400V/3ph/50Hz		
Capacity (T1)*	Btu/hr		18,000	23,500	30,000	18,000	23,500	30,000	36,000	48,000	57,000
	kW		5.28	6.89	8.79	5.28	6.89	8.79	10.55	14.07	16.71
Capacity (T3)**	Btu/hr		15,750	20,500	27,000	15,750	20,500	27,000	32,000	43,600	52,000
	kW		4.62	6.00	7.91	4.62	6.00	7.91	9.38	12.78	15.24
EER (T1)*	Btu/hr/W		11.91	11.73	11.91	11.91	11.73	11.91	12.15	11.63	12.00
EER (T3)**	Btu/hr/W		8.73	8.73	8.83	8.73	8.73	8.83	9.01	8.81	9.25
ESP Range (High Fan)	Rated /Max	Pa	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	50 / 75	50 / 75	50/100
Air Flow	H/M/L	CFM	721/618/432	800/641/516	1,496/1,378/1,269	721/618/432	800/641/516	1,496/1,378/1,269	1,496/1,378/1,269	1,726/1,454/1,300	1,990/1,770/1,410
Noise	H/M/L	dB(A)	41/39/36	38/35/32	38/35/32	41/39/36	38/35/32	38/35/32	44/42/41	46/44/41	54/TBC/TBC
Dimensions	H	mm	261	378	378	261	378	378	378	378	430
	W	mm	1,137	1,030	1,030	1,137	1,030	1,030	1,287	1,487	1,372
	D	mm	388	541	541	388	541	541	541	541	665
Refrigerant	Type	R-410A									
Compressor	Type	Rotary			Rotary			Scroll			
Dimensions	H	mm	753		852	753		852	753	852	1,067
	W	mm	855		1,030	855		1,030	855	1,030	880
	D	mm	328		400	328		400	328	400	880
Piping Connections	Liquid	mm	6.35	6.35	9.52	6.35	6.35	9.52	9.52	9.52	9.52
		in	1/4	1/4	3/8	1/4	1/4	3/8	3/8	3/8	3/8
	Gas	mm	12.7	15.88	15.88	12.7	15.88	15.88	15.88	19.05	19.05
		in	1/2	5/8	5/8	1/2	5/8	5/8	5/8	3/4	3/4
Piping Lengths	Total	m	50								
	Vertical	m	30								
Operating Temperature Range	°C	19 - 52			19 - 54			19-52			

*T1: Indoor - 27°C DB / 19°C WB, Outdoor - 35°C DB - 24°C WB

**T3: Indoor - 29°C DB / 19°C WB, Outdoor - 46°C DB - 24°C WB



R410-A
Zero ozone depletion potential for a reduced impact on the environment.



Long Air Flow
The airflow can reach long distances, for optimal cooling comfort even for large spaces.



Tropical Compressor
The tropical compressor is able to handle and operate fully under extreme weather conditions.



Sleep Mode
Setting sleep mode will gradually adjust the set temperature to provide a comfortable environment for sleeping.



Powerful Cooling
Rapid cooling and powerful, even if outside temperature is very high.



Energy Saving
Daikin offers efficient operation on its equipment for lower electricity consumption. This also contributes to reduce CO2 emissions.



Silence
Daikin indoor units are whisper quiet. Outdoor units are also guaranteed not to disturb the quietness of the neighbourhood.



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